Stock Structure Examples Salmon and Hooligans

Stocks – Populations

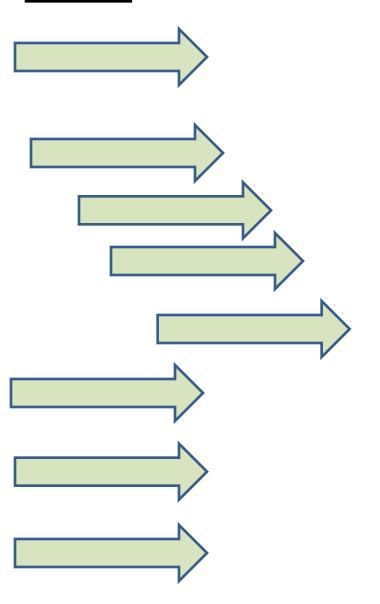
SHRU – Management Unit

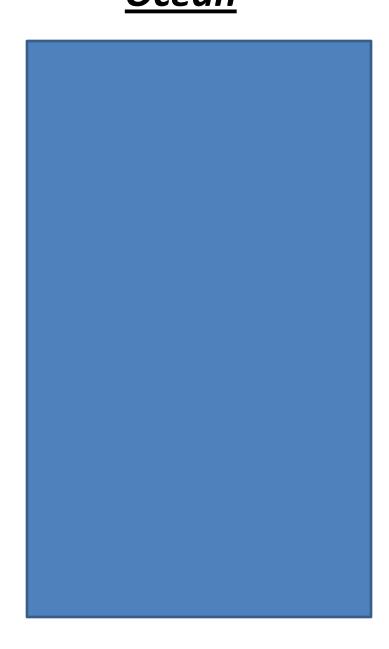
Evolutionarily Significant Unit DPS

Species

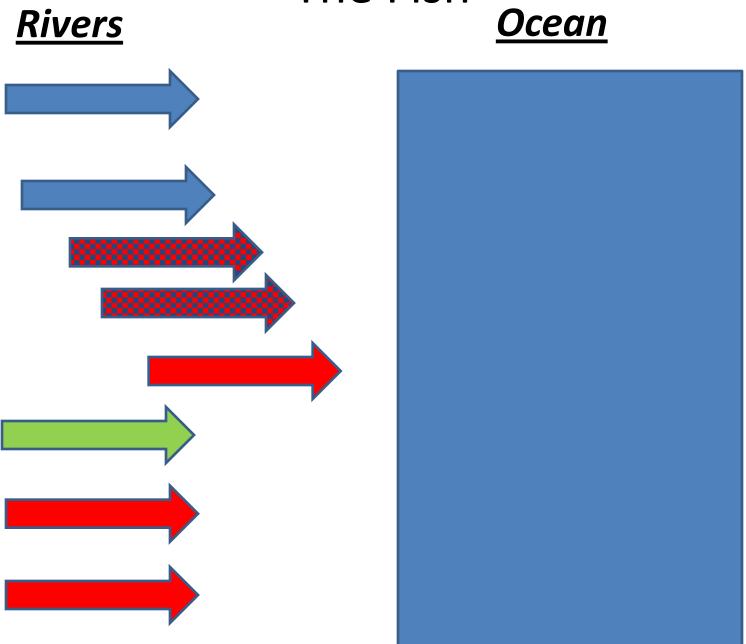
The Geography <u>Ocean</u>

Rivers



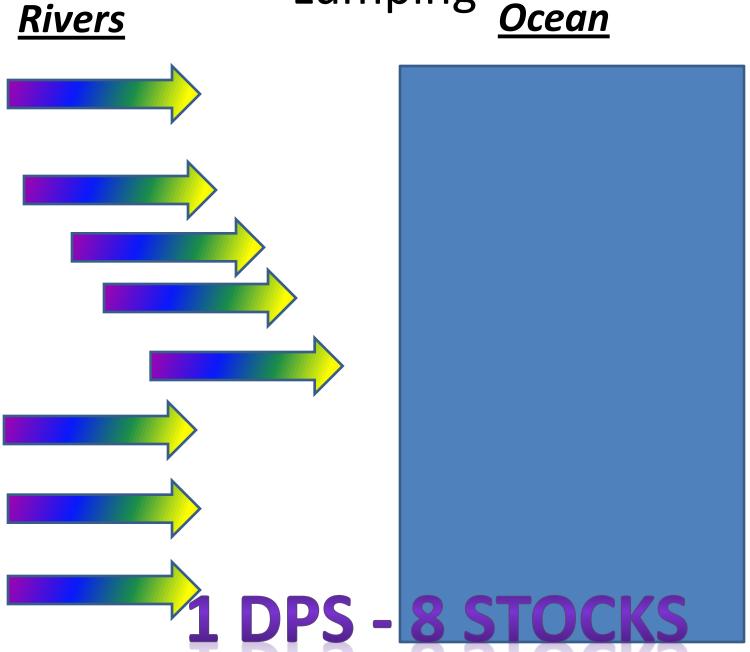


The Fish

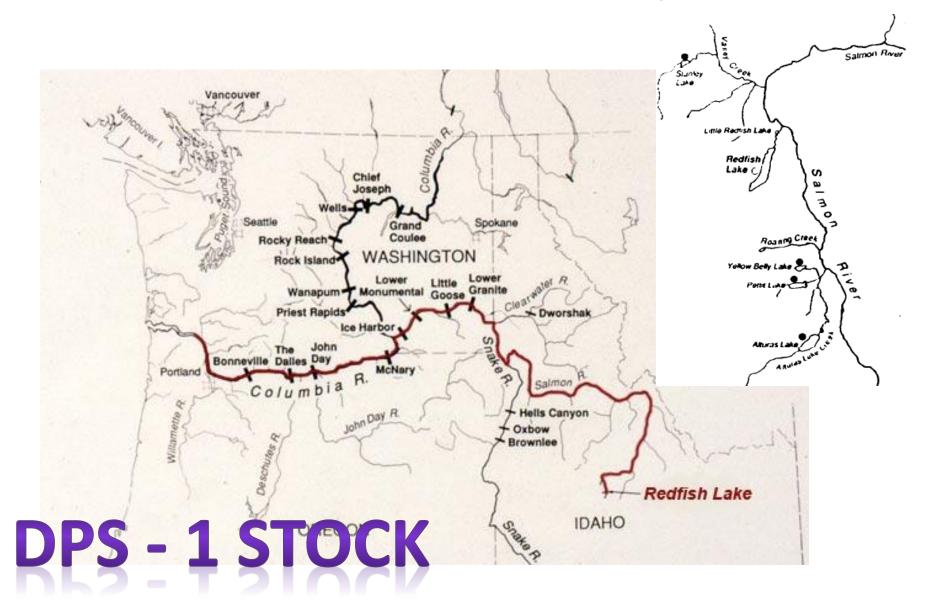


Splitting **Rivers** Ocean

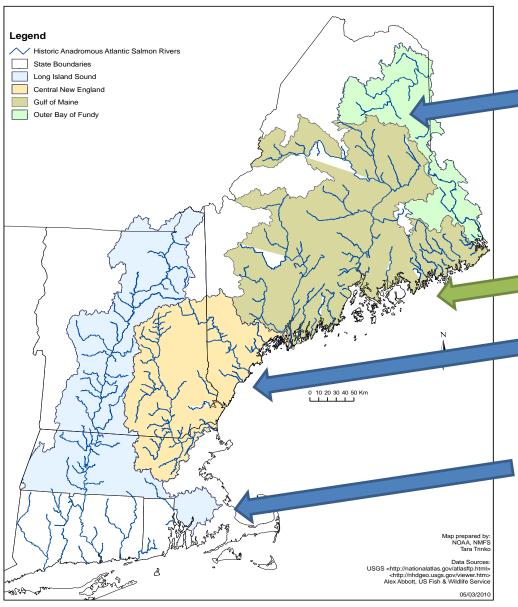
Lumping <u>Ocean</u>



Redfish Lake Sockeye



Atlantic Salmon DPS Areas



- Outer Bay of Fundy
- Gulf of Maine
 - Penobscot
 - Kennebec
 - Androscoggin
- Central New England
 - Saco
 - Merrimack
- Long Island Sound
 - Connecticut

Atlantic Salmon



DE Stocks

Dennys

E. Machias

Machias

Narraguagus

Pleasant

Merrymeeting Bay

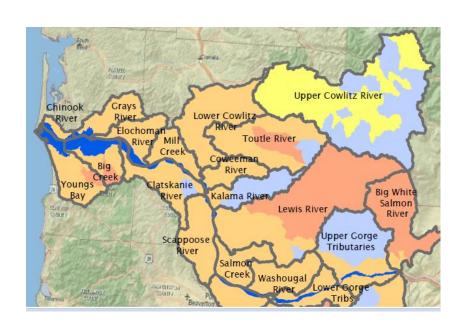
Sheepscot

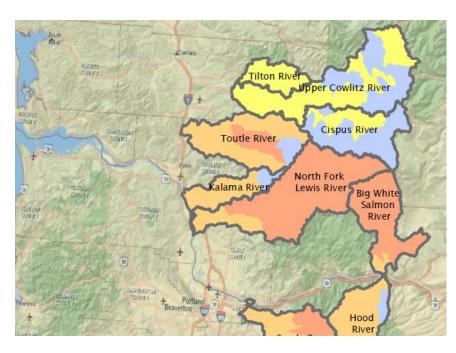
DPS - 8 STOCKS/3MGMT UNITS

Columbia Chinook

Chinook salmon, fall run

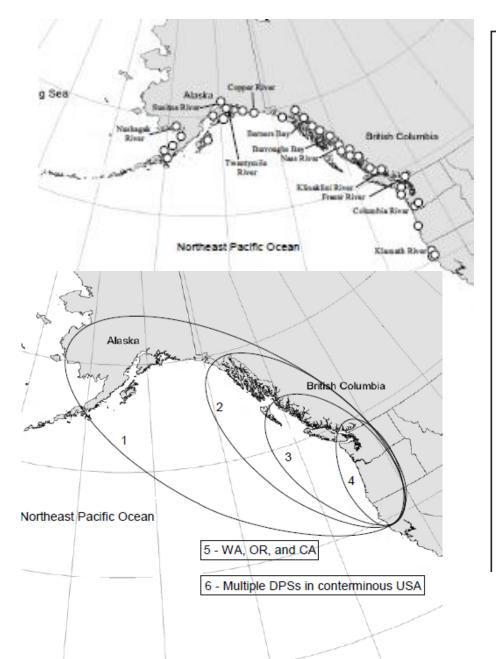
Chinook salmon, spring run

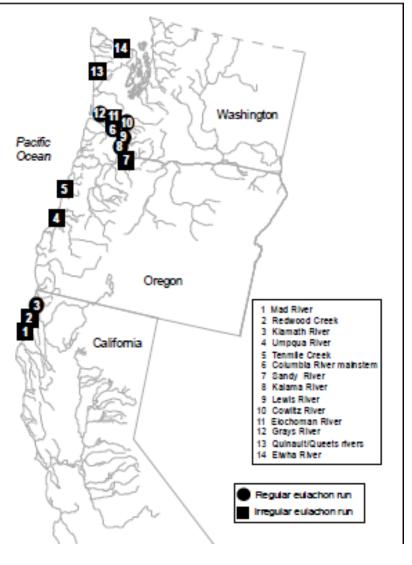




2 DPS – 1 LOCATION, DIFF MGMNT UNITS

Eulachon - Hooligans





Eulachon

Based on this review, we conclude that eulachon populations spawning from the Skeena River in British Columbia (inclusive) south to the Mad River in Northern California (inclusive) meet the discreteness and significance criteria for a DPS (61 FR 4722, February 7, 1996; NMFS, 2008). These southern DPS eulachon are discrete from eulachon occurring north of this area

based on differences in spawning temperatures; length- and weight-at maturity in the species' range; ecological features of both the marine and freshwater environments occupied by eulachon; and genetic characteristics.

The southern DPS is **significant** to the species as a whole because it constitutes over **half of the geographic range** of the taxonomic species' distribution, and it includes **two of the known major production areas (Columbia and Fraser rivers)** and a third area that may have been historically a major production area (Klamath River).